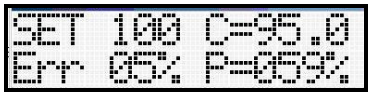
Operating Instructions for Plato SP-500T (P), SP-150T (P), SP-600T (P) and SP750T (P) With Digital Control Board

The Display



Set: the desired temperature set by the user.
C or F: the temperature measured by the solder pot, ℃ for Celsius or ℉ for Fahrenheit.
Err: the difference between the set temperature and the measured temperature as a percentage.
P: the percentage of power sent to the heater.

Setting the Temperature

1. Set Power Switch to On O = Off, – = On
2. Wait until the operation screen appears.
3. Press and hold MENU button for 1 second
4. Press up or down button, Select "Set Temperature" and Press MENU
5. Select Desired Temperature
6. Press Menu button to exit Set Temp function
7. Press DOWN/ (YES) button to save setting

Changing Temperature Readout from Fahrenheit to Celsius.

1. Press and hold MENU button for 1 second
2. Press up/down Select "Fahrenheit/Celsius"
3. Press MENU
4. Press DOWN or UP button to select Fahrenheit or Celsius
5. Press MENU
6. Press DOWN/ (YES) button to save setting
7. The pot will need to be recalibrated

Setting the Time

(Will not alter performance of solder pot)

1. Press and hold MENU button for 1 second
2. Press up or down button, Select "Set Time"
3. Press MENU
4. Press DOWN or UP button to select correct time.
5. Press MENU
6. Press DOWN/(YES) button to save setting

Calibration Procedure

1. Start with pot at room temperature.
2. Put some solder into the crucible.
3. Plug in and turn on solder pot.
   Note: Unless there is a problem, ***DO NOT unplug*** *or* ***turn off*** *the solder pot after initiating the calibration procedure. The solder pot must start from room temperature to heat up properly.*
4. Allow about 20 to 30 minutes for heat up.
5. Insert the calibration meter thermocouple into molten solder.
6. Compare the reading between the calibration thermometer and that of the solder pot LCD readout.
7. If the readout on the LCD is lower or higher than the reading of the calibration thermometer, the pot will require calibration.
8. Press MENU then UP or DOWN to get to the OFFSET function.
9. Press MENU again to enter OFFSET function.
10. Adjust the offset value by the degrees difference between the calibration thermometer reading and LCD reading. If the calibration thermometer reading (actual pot temp) is higher than LCD reading adjust existing offset value up and if lower adjust down.

$$\text{New offset value} = \text{existing offset value} + \left[\text{calibration meter reading} - \text{LCD reading}\right]$$

11. Press MENU to enter offset value obtained from step 10.
12. Press YES (DOWN) to save setting.
13. Wait about 10 minutes then check if the temperatures are matching.
14. Repeat steps 9 – 13 until the reading on the calibration meter matches the LCD reading. The accepted tolerance range is ±5℉ (±2.75℃).

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